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Radio frequency identification system for transponder tag - has modulation detector which detects modulation signal superimposed on RF modulation from interrogator to awaken circuits within transponder to enable communication with interrogator

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5448242	A	19950905	US 94233872	A	19940426	199541 B
JP 8054462	A	19960227	JP 95102525	A	19950426	199618 .
TW 307967	A	19970611	TW 95111897	A	19951110	199738

Priority Applications (No Type Date): US 94233872 A 19940426; US 94233169 A 19940426; US 94233839 A 19940426; US 94233871 A 19940426

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5448242	A	26	G01S-013/75	
JP 8054462	A	45	G01S-013/78	
TW 307967	A		H04L-009/32	

Abstract (Basic): US 5448242 A

The system protects a transponder or tag (14) from being enabled or awakened by spurious RF energy. A modulation detector (64) is provided which detects a modulation signal that is superimposed upon an RF modulation from an interrogator (12). Pref the superimposed modulation is of a low frequency, below those typically existing as Electro-Magnetic Interference (EMI), such that the transponder (14) is less likely to be erroneously activated by an unintended RF signal.

Upon reception of an RF interrogation having the correct modulation superimposed on it, the modulation detector (64) is operated to awaken other circuitry within the transponder (14) such that the transponder (14) is then operable to communicate with the interrogator (12).

USE/ADVANTAGE - Radio frequency identification of transponder by interrogator in automatic vehicle identification type of recognition system.

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